

CLAIMS

1. Arrangement for axial support of two jointly rotating components (2, 3) by way of a snap ring (6) which has two impacting ends (6a, 6b) separated by a peripheral gap (7), movable in the area of a radial spring path and inserted in an annular groove (11) of the supporting component (2), characterized in that the component (3) to be supported has at least one ramp (8, 9) in the area of the radial spring path of the impacting ends (6a, 6b) of the snap ring (6).

2. Arrangement according to claim 1, characterized in that the supporting component (2) has an approximately hollow cylindrical inner face or a hole in which the annular groove (11) is integrated and that at least one ramp (9) is situated radially within the impacting ends (6b).

3. Arrangement according to claim 1, characterized in that the supported component has a cylindrical outer face in which the annular groove is integrated and that at least one ramp is situated radially outside the impacting ends.

4. Arrangement according to claim 1, 2 or 3, characterized in that with each impacting end (6a, 6b) one ramp (8, 9) is coordinated.

5. Arrangement according to any one of claims 1 to 4, characterized in that between the impacting ends (6a, 6b) one stop (10) is placed in the area of the peripheral gap (7).

6. Arrangement according to claim 5, characterized in that the stop is designed as knubs (10) and situated upon the component to be supported (3).

7. Arrangement according to any one of claims 1 to 6, characterized in that the component to be supported is designed as sheet metal component (3).

8. Arrangement according to any one of claims 1 to 7, characterized in that the supporting component is designed as sheet metal component (2).

9. Arrangement according to claim 7 or 8, characterized in that the ramps (8, 9) are stamped from the metal sheet component (3) to be supported.

10. Arrangement according to claim 7, 8 or 9, characterized in that the knubs (10) are stamped from the sheet metal component (3) to be supported.

11. Arrangement according to any one of claims 1 to 10, characterized in that the snap ring (6) is designed non-torsionally in the area of the impacting ends (6a, 6b) around a respective axis Y-Y extending in peripheral direction.

12. Arrangement according to claim 11, characterized in that the snap ring (6) has in the peripheral areas behind the impacting ends (6a, 6b) recesses (12) for reduction of cross-section.

13. Arrangement according to any one of claims 7 to 12, characterized in that the supporting component is designed as outer (2) and the component to be supported as inner (3) disc carrier of a multi-disc clutch (1).